Applicant: Michael A. Apicella et al. Attorney's Docket No.: 17023.031US1 / 01025

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## **IN THE CLAIMS**

1-6. (Canceled)

- 7. (Original) An isolated and purified polynucleotide encoding a PLD from a *Neisseria* bacterium.
- 8. (Original) The polynucleotide of claim 7, wherein the polynucleotide comprises nucleic acid sequence SEQ ID NO:9, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19 or SEQ ID NO:32.
- 9. (Original) An isolated and purified polypeptide encoded by nucleic acid sequence SEQ ID NO:9, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19 or SEQ ID NO:32.
- 10. (Original) An isolated and purified polypeptide comprising phospholipase D from a *Neisseria* bacterium.
- 11. (Original) The polypeptide of claim 10, wherein the polypeptide comprises SEQ ID NO:4, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18 or SEQ ID NO:20.
- 12. (Currently amended) A vaccine comprising an immunogenic amount of the polypeptide of claim 10 a PLD polypeptide from *Neisseria*, which amount is effective to immunize a patient against a neisserial infection, in combination with a physiologically-acceptable, non-toxic vehicle.
- 13. (Currently amended) The vaccine of claim <u>12</u> <del>19</del>, which further comprises an effective amount of an immunological adjuvant.
- 14. (Currently amended) The vaccine of claim <u>12</u> <del>19</del>, wherein the polypeptide is conjugated or linked to a second peptide.

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15. (Currently amended) The vaccine of claim <u>12</u> <del>19</del>, wherein the polypeptide is conjugated or linked to a polysaccharide.

- 16. (Currently amended) The vaccine of claim <u>12</u> <u>19</u>, wherein the polypeptide is encoded by a polynucleotide comprising SEQ ID NO:9, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19 or SEQ ID NO:32.
- 17. (Currently amended) A method of protecting a patient against *Neisseria* colonization or infection comprising administering to the patient an effective amount of a vaccine comprising an immunogenic amount of the polypeptide of claim 10 a PLD polypeptide from *Neisseria*, which amount is effective to immunize a susceptible patient against a neisserial infection, in combination with a physiologically-acceptable, non-toxic vehicle.
- 18. (Currently amended) The method of claim <u>17</u> <del>15</del>, which further comprises an effective amount of an immunological adjuvant.
- 19. (Currently amended) The method of claim <u>17</u> <del>15</del>, wherein the polypeptide is conjugated or linked to a second peptide.
- 20. (Currently amended) The method of claim  $\underline{17}$  15, wherein the polypeptide is conjugated or linked to a polysaccharide.
- 21. (Currently amended) The method of claim <u>17</u> <del>15</del>, wherein the vaccine is administered orally, mucosally or by subcutaneous or intramuscular injection.
- 22. (Currently amended) The method of claim <u>17</u> <del>15</del>, wherein the polypeptide is encoded by a polynucleotide comprising SEQ ID NO:9, SEQ ID NO:13, SEQ ID NO:15, SEQ ID NO:17, SEQ ID NO:19 or SEQ ID NO:32.

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23-24. (Canceled)

25. (New) The polypeptide of claim 10 that is conjugated or linked to a second peptide.

- 26. (New) The polypeptide of claim 10 that is conjugated or linked to a polysaccharide.
- 27. (New) An isolated and purified polynucleotide encoding the polypeptide of claim 10.
- 28. (New) A composition comprising the polypeptide of claim 10 and a pharmaceutically-acceptable vehicle.